

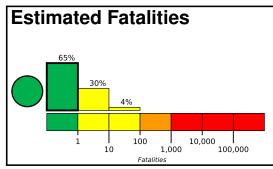




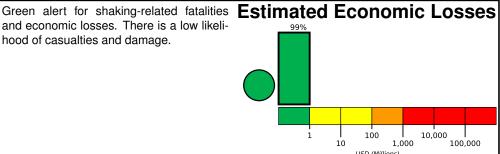
PAGER Version 5

Created: 3 weeks, 5 days after earthquake

M 5.7, 4 km WNW of Madrigal, Peru Origin Time: 2021-10-09 04:47:49 UTC (Fri 23:47:49 local) Location: 15.5887° S 71.8425° W Depth: 13.9 km



and economic losses. There is a low likelihood of casualties and damage.



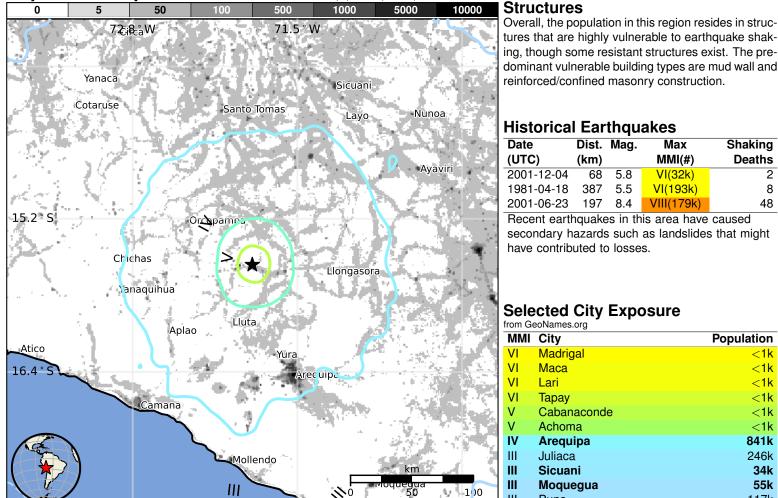
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	1,513k*	1,425k	23k	6k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-12-04	68	5.8	VI(32k)	2
1981-04-18	387	5.5	VI(193k)	8
2001-06-23	197	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from Ge	eoNames.org	
MMI	City	Population
VI	Madrigal	<1k
VI	Maca	<1k
VI	Lari	<1k
VI	Tapay	<1k
٧	Cabanaconde	<1k
٧	Achoma	<1k
IV	Arequipa	841k
Ш	Juliaca	246k
Ш	Sicuani	34k
Ш	Moquegua	55k
Ш	Puno	117k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.